

Title (en)  
STEEL FOR NITRIDING PURPOSES, AND NITRIDED MEMBER

Title (de)  
STAHL FÜR NITRIERUNGSVORGÄNGE UND NITRIERTES ELEMENT

Title (fr)  
ACIER POUR DES OBJECTIFS DE NITRURATION ET ÉLÉMENT NITRURÉ

Publication  
**EP 2578717 B1 20150916 (EN)**

Application  
**EP 11840912 A 20111117**

Priority

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Abstract (en)  
[origin: EP2578717A1] The present invention provides a steel for nitriding with a composition including, by mass%: C: 0.10% to 0.20%; Si: 0.01% to 0.7%; Mn: 0.2% to 2.0%; Cr: 0.2% to 2.5%; Al: 0.01% to less than 0.19%; V: over 0.2% to 1.0%; Mo: 0% to 0.54%; N: 0.001% to 0.01%; P limited to not more than 0.05%; S limited to not less than 0.2%; and a balance including Fe and inevitable impurities, the composition satisfying  $2 \frac{[V]}{[C]} \geq 10$ , where [V] is an amount of V by mass% and [C] is an amount of C by mass%, in which the steel for nitriding has a microstructure containing bainite of 50% or more in terms of an area percentage.

IPC 8 full level  
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Cited by  
EP2985362A4; EP2985361A4; EP3591081A1; US2021087645A1; US11905992B2; US10066281B2; US10351944B2; WO2015195285A1

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